



RF Switch

NAB 3800/3801

Product Description

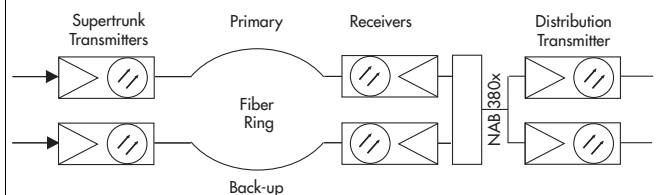
All of Harmonic's indoor receivers support redundant networks through the NAB 3800 series switches. Both the NAB 3800 and the NAB 3801 can be used with the HRM 3810 receiver. The switch changes the route from primary to backup whenever the primary receiver is in alarm. The status of the switch may be monitored via the status of the primary receiver.

The bandwidth of both switches extends to 870 MHz. The NAB 3800 has the high isolation required for analog systems. The NAB 3801 has high isolation up to 550 MHz and sufficient isolation for digital information above this level. The NAB 3800 and NAB 3801 can also be used with Harmonic's Link Extender (models HLE 3700 and HLE 3800).

Applications

- Redundant links using the HRM 3810 and the HLE 3x00

Standard Configuration



Electrical

Operating Band	5-870 MHz
Insertion Loss (either input to output)	
NAB 3800	≤ 2 dB
NAB 3801	≤ 1 dB
Frequency Response (either input to output)	±0.75 dB
Isolation (unused input to output)	
NAB 3800 (5-870 MHz)	70 dB
NAB 3801 (5-550 MHz)	70 dB
NAB 3801 (550-870 MHz)	60 dB
Input Impedance	75 Ω
Output Impedance	75 Ω
RF Connectors	F-type (both inputs and output)
Control Connector	DB9 (cable to interface with HRM 3810, and HLE 3x00 supplied)
Input Return Loss	>16 dB (both inputs over passband with switch in either state and with connected ports terminated)
Output Return Loss	>16 dB (over passband with switch in either state and with connected ports terminated)
Maximum Group Delay	5 ns (both inputs over passband with switch in either state)
Maximum Switching Time	15 ms
Powering	From connector on primary HRM 3810.
Logic	Switch will de-energize (connect backup input to output) when alarm input is true
HEMInterface	Via primary receiver

Physical Dimensions

NAB 3800	3.50" W x 5.25" L x 1.14" H (8.89 cm W x 13.3 cm L x 2.90 cm H)
NAB 3801	3.66" W x 5.25" L x 1.04" H (9.30 cm W x 13.3 cm L x 2.64 cm H)
Weight	
NAB 3800	3.5 oz/99 g
NAB 3801	2.5 oz/71 g
Mounting	Side or back of rack

Environmental

Operating Temperature Range	-20° to 40° C (-4° to 104° F)
Relative Humidity	Maximum 85% non-condensing

